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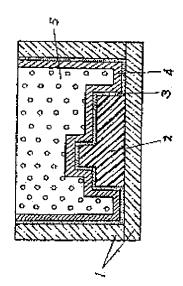
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## (54) RESIN MOLD

## (57)Abstract:

PURPOSE: To improve remarkably the durability of a mold to have less abrasive deterio ration and high hardness by constituting the surface resin layer of the mold of the resin in which the whisker with high mechanical strength is dispersed and composited. CONSTITUTION: Whisker is composed of acicular crystals having 0.1W1µm in diameter and 50W200 of aspect ratio, and the whisker such as SiC or Si3N4, etc. is preferable. The surface of a base mold 2 and the inner surface of a core box are coated with the mold releaser such as wax. The whisker of a prescribed concentration is mixed with the thermosetting resin such as urethane resin, etc., and is dispersed uniformly by agitation, and then the surface of the base mold 2 is coated or sprayed with said mixture in a prescribed thickness, whereby the resin layer 3 reinforcing the surface of a resin mold, is molded. Next, said layer 3 is coated or sprayed with the mixture of the thermosetting resin such as epoxy resin or urethane resin, etc., metallic powder and glass fiber



chop, thereby laminate-molding an intermediate paste layer 4. Then, the packing material 5 made by mixing glass fiber chop, fine powder of Al2O3, SiC, etc. and thermosetting resin with silica sand, is filled in said paste layer, and after it has been fully hardened by pushing and cured under heating, it is removed from the core box. Thus, the resin mold is obtained.